

AF1000

ASTOUNDING POWER IN AN EASY-TO-PROGRAM DMX 512 PACKAGE



A quantum leap in strobe technology. Brilliant new technical advances place AF1000 in a class by itself as not only an ultra high power flash system, but also as a continuous illumination source and pyrotechnic lightning simulation device.

In 1988, High End Systems introduced the Dataflash® xenon strobe fixture and controller, and gave designers the world's most advanced and powerful flashlamp system. Dataflash single-handedly rekindled the lighting designer's interest in strobe effects with a system that could consist of hundreds of flashlamps—each individually addressable and dimmable, providing bursts of incredible power, yet dimmable for subtle effects. Dataflash was an immense hit in a variety of entertainment lighting markets; architectural, television, theme parks, and of course, the live concert touring market, where huge grids of Dataflash accentuated performances by many of the world's top performers.

Now High End Systems unleashes Dataflash® AF1000, the next quantum leap in strobe technology. Brilliant new technical advances place AF1000 in a class by itself as not only an ultra high power flash system, but also a continuous illumination source and a pyrotechnic device capable of lightning simulation. The new AF1000 is fully DMX-512 compatible, allowing the fixture to be run from any DMX compatible controller. AF1000 may also be controlled by either the Dataflash LCD or Mini Controllers from Lightwave Research:

AF1000 is a versatile unit which adapts to many different applications. In the theatre or in TV studios,

The Dataflash® AF1000 Xenon Strobe Fixture



Dataflash AF1000 Specifications

Maximum continuous flash power: 25,000 Joules, duty cycle microprocessor regulated

Will emit light continuously from one second (highest power) to continuously illuminated (lower power). Continuous illumination consists of 120 FPS (flashes per second) at 60 Hz. This becomes 100 FPS at 50 Hz

Single flash power: 100 Joules

Maximum flash rate: 120 FPS at 60 Hz 100 FPS at 50 Hz

Color temperature: 5600° Kelvin

Lamp life: Standard setting: 2M flashes @ 30 Joules • Architectural setting: 8M flashes @ 30 Joules per flash • Special effect setting: 4M flashes @ 60 Joules

Fixture is available in yoke mounted weatherized or non weatherized versions

Personality switch setting and selection of flash tube enables stand alone, standard, architectural, or special effect operation

Operational and communication modes: AF1000 uses up to three DMX channels per fixture for DMX control over any combination of rate, duration and intensity in seven DMX modes

64 levels of intensity (dimming), 64 levels of rate and 64 levels of duration are provided

Up to 512 fixtures may be individually addressed

Every fixture has data active, status, and power LEDs, giving the user access to the fixture's built in self diagnostic facility

Quick lamp replacement

3-phase system capability

Auto voltage sensing from 100 VAC to 240 VAC, 50/60 Hz

Self resetting thermal shutdown

Current consumption adjustable

Maximum current consumption: 20 Amps

Dimensions: 241mm length x 213mm diameter (9.5" length x 8.4" diameter)

Weight: 1.9 kg (4.2 lbs)





AF1000 Mini Controller Specifications

Uses standard USITT DMX-512 control protocol

Has Standby, Flash, Value, Program, Rate, Intensity and Audio keys

Value display shows current program or mode selected and output channel display shows which channels are active

Program hold indicator shows that a program is ready to be sent to the Dataflash AF1000 fixtures

Audio indicator shows the beat of the audio being received at the controller's audio input

Configuration DIP switches select the number of DMX channels the controller is to use

Positive feel switches

Up to 24 DMX-512 output channels (12 addresses)

XLR data link output provides DMX-512 signals to AF1000 fixtures

1/4" stereo phone input provides connection from an external line level audio source to the controller for sound synchronization of program material

Electrical requirements: 125 mA @ 120VAC, 60 Hz, and 70 mA @ 230/240 VAC, 50 Hz (switchable)

Rugged and roadworthy construction

Standard rack mount, 2 I.U.

Dimensions: 89mm H x 482mm W x 61mm D (3.5" H x 19" W x 2.4" D)

Weight: 1.5 kg (3.4 lbs)

The AF1000 horizontal reflector.



Dataflash AP1000 complements other moving or conventional lighting and can be used to punctuate performances and create excitement both onstage and in the audience.

AF1000 can produce remarkable lightning effects or safe pyrotechnic simulations. In nightclubs and discotheques, AF1000 can add enormous energy to the atmosphere with streaking chases and unparalleled controllable power. In concerts, the ability of the AF1000 to give intense continuous output really comes into its own. Stun an audience with intense bursts of light, adding impact to your show.

The Dataflash AF1000 fixture emits up to 25,000 Joule continuous flashes, duty cycle microprocessor regulated, at a color temperature of 5600° Kelvin.

Offering single flash power of 100 Joules, AF1000 units can dwarf the most powerful 8-light audience blenders with incredible bursts of light energy. AF1000 features a maximum flash rate of 120 FPS (flashes per second) at 60 Hz and 100 FPS at 50 Hz. The fixture will emit light continuously for up to one second at highest power to an average of 30 seconds continuous illumination at lower power settings. The use of dichroic color media from Lightwave Research allows AF1000 to outperform color washes traditionally handled by PAR cans and other theatrical instruments.

At the heart of the unit's versatility are the personality switch settings on the AF1000 fixture and selection of the hard glass xenon S01 or the high power quartz xenon H01 flash tubes, which enable standard, architectural, or special effect operation. When used with the S01 lamp, AF1000 provides twice the duty cycle of the traditional Dataflash. For standalone usage, DIP switches on the AF1000 unit may be configured for a variety of operations. Because AF1000 also features auto voltage sensing from 100 V to 240 V 50/60 Hz, the units need not be reconfigured for worldwide voltage variations.

AF1000 is available in weather resistant and non-weather resistant yoke mounted versions. Available in gray or black matte finishes, the weather resistant version is designed for outdoor use and features a weatherized fixture housing. The strobe's rugged construction includes a high

impact injection molded ABS Cyclocac housing and Lexan polycarbonate dome. A safety cable prevents dropping of AF1000 parts during service.

AF1000 uses up to three DMX channels per fixture for control over rate, duration, and intensity in seven different DMX modes. AF1000 also provides wider control over these parameters than ever before possible, with 64 levels of intensity (dimming), 64 levels of rate (speed) and 64 levels of duration accessible through digital control. Up to 512 AF1000 fixtures may be individually addressed through DMX protocol, and each fixture has data active, status, and power LEDs, giving the programmer access to the fixture's built-in self diagnostic facility.

Mini Controller

The AF1000 Mini Controller can control up to 12 addresses for AF1000 fixtures via standard USITT DMX-512 lighting control protocol. The user can call up programs and set any options instantly for live control, or set the controller in any of its automatic modes. Special functions are provided for automatic modification of program number, rate, and intensity. Many of these special functions deliver excellent audio synchronization as the Mini Controller is driven by external music signals fed to the controller's audio input. An audio indicator on the front panel

displays audio activity. The controller also includes a Program Value display and 12 LEDs that indicate DMX-512 activity. Other front panel buttons control Standby, Flash, Value, Program, Rate, Intensity and Audio functions.



Traditional DMX controllers update peripheral devices 40 times a second without referencing the A.C. mains for synchronization purposes. This mini controller synchronizes itself and the strobes connected to it with the external mains, performing data updates every half cycle, thus delivering a tight, crisp chase that is more visually attractive than strobe chases achieved with conventional DMX-512 controllers.

AF1000 LCD Controller

The new AF1000 LCD Controller is the natural choice for control of AF1000 fixtures in a professional environment. An extension of the highly popular line of Lightwave Research



LCD Controller for AF1000 Specifications

Will control systems of up to 256 Dataflash AF1000 fixtures

Liquid crystal display with adjustable backlight intensity

Simple Menu operation with programming assistance prompts

9 memories

891 pages (scenes)

1024 programmable presets

Master/Slave capabilities for control of infinite number of fixtures

Page edit

Page copy

Memory lock

PCMCIA type 1 RAM card slot for backup and transfer of show data, programs and operating system

Provides full control over intensity (dimming), duration, rate, program, advance mode, and other effects

Stores up to 99 programs internally and up to 99 additional programs on a PCMCIA type I RAM card

User may select both internal and external (card) programs when creating or editing a page

Dataflash programs may be transferred in or out via RS-232 port or RAM card

Mini Dataflash programs available on RAM card including lightning effects programs

Program battery back-up

Internal on-line help

Show key overrides program delay setting, causing program to run as long as the key is pressed

Remote analog access of pages and presets from one or more analog lighting boards or other devices

User selectable proportional or remote level submaster modes

Live control over fixtures during playback via override facility

8 User programmable macro keys

Edit parameter viewing

Intensity modulate

One touch button flashes all strobes simultaneously

Two audio advance modes

Page time delay

Stereo 1/4" TRS audio input

Durable polycarbonate front panel

RS-232 serial port for program backup or control via an external computer. The controller responds to programs created in FlashCad and will respond to programs created in WinFlash

MIDI "In" port for MIDI Show Control

Switchable MIDI Out/Thru port

Supports MIDI Show Control "Go" Command

Locking key switch

Power consumption 500 mA @ 120V/60 Hz

Voltage is externally selectable for 120 or 230 VAC, 50/60 Hz

Dimensions: 178mm H x 482mm W x 245mm D (7" H x 19" W x 9.25" D)

Weight: 6.4 kg (14 lbs)



Selection of the hard glass xenon S01 or the high power quartz xenon H01 flash tubes enables standard, architectural or special effect operation.

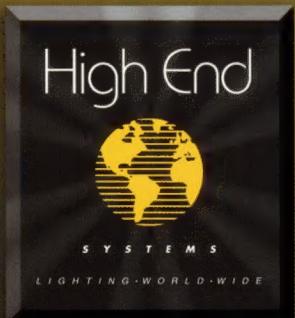


LCD controllers, this new controller drives up to 256 Dataflash AF1000 fixtures. The LCD Controller provides full front panel control over intensity (dimming), duration, rate, program, advance mode, and other Dataflash parameters. It also features liquid crystal display with adjustable backlight intensity, nine memories, 891 pages (scenes), 1024 programmable presets, master/slave capabilities, memory lock, and Page edit/Page copy functions. A PCMCIA RAM card slot allows for backup and transfer of show data, programs and operating system. RAM cards with custom configurations are available from High End Systems.

Up to 99 programs may be stored internally; an additional 99 programs may be stored in the RAM card. Programs may also be transferred to or from the controller via RS-232 port or RAM card. While creating or editing a page in the LCD's controller memory, the user can select both internal and external (card) programs. Dataflash programs written for the Mini Controller are available on RAM card, including lightning effects programs. Finally, the LCD Controller can interface with Lightwave Research software packages FlashCad or WinFlash and the Status Cue™ lighting console.

While the AF1000 LCD Controller retains features from the LCD Controller series such as eight user programmable macro keys and remote analog access of pages and presets, the AF1000 version also has unique functions like the Flash key, which flashes all strobes simultaneously, and Override, for live control over fixtures during playback. The Show Key overrides a program's delay setting, causing any program to run as long as the key is pressed. The Multiply factor determines the number of times each step of the selected pattern is repeated.

Two Audio advance modes and one auto advance mode affect program advance rate. Sporting a durable polycarbonate front panel finish, the controller also features In and Thru/Out ports for MIDI implementation and a locking key switch.



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